AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1-54. (Canceled)
- 55. (New) An information storage apparatus comprising:
- a storage medium;
- a head assembly having:
- a substantially planar surface; and
- a plurality of read/write heads;

wherein the read/write heads are arranged substantially in the plane of said planar surface and wherein said information storage medium and said head assembly are arranged in mutually sliding abutment such that said read/write heads are substantially in sliding contact with the outer surface of the information storage medium in use; and

the storage medium and the head assembly comprise a substrate having a sufficiently low thermal expansion that in use thermal misregistration between the storage medium and the head assembly does not take place.

 (New) An information storage apparatus as claimed in claim 55 wherein said heads are provided on a monolithic layer. Amendment Under 37 C.F.R. § 1.111 USSN 10/690.569 Group Art Unit 2651 Attorney Docket Q72585 Confirmation No. 5982

57. (New) An information storage apparatus as claimed in claim 55 wherein the

heads are fixed in position and the information storage medium overlies the heads and wherein a

lubricating layer is provided therebetween.

58. (New) An information storage apparatus as claimed in claim 57 wherein said

lubricating layer comprises a self-lubricating layer on at least one of the storage medium and

head array.

59. (New) An information storage apparatus as claimed in claim 58 wherein said

self-lubricating layer comprises an artificial diamond coating.

60. (New) An information storage apparatus as claimed in claim 55 wherein all of the

read/write heads are mounted on a single member.

61. (New) An information storage apparatus as claimed in claim 60 wherein said

member is generally sized and shaped to correspond to the size and shape of the information

storage medium.

62. (New) An information storage apparatus as claimed in claim 61 wherein said

information storage medium and said head assembly comprise similar substrates.

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63. (New) An information storage apparatus as claimed in claim 61 wherein said

storage medium and read/write heads are resiliently biased together.

64. (New) An information storage apparatus as claimed in claim 55 wherein the

heads are arranged topologically in a rectangular array.

65. (New) An information storage apparatus as claimed in claim 64 wherein said

head array comprises connections to both ends of the rows and columns.

66. (New) An information storage apparatus as claimed in claim 64 wherein said

read/write heads are formed by deposition onto a glass ceramic wafer, said wafer being formed

with connections to the heads.

67. (New) An information storage apparatus as claimed in claim 55 wherein the head

assembly comprises pre-processing and/or pre-amplification circuitry for pre-processing and/or

pre-amplifying data read by said heads prior to being output from the head assembly.

68. (New) An information storage apparatus as claimed in claim 55 wherein said

storage medium and/or said head assembly comprises a substrate of glass having a coefficient of

expansion less than 1 nm per 100 mm per Kelvin temperature rise.

- 69. (New) An information storage apparatus as claimed in claim 55 wherein at least one read/write head is provided for all of the tracks that are available for information storage on the storage medium.
- (New) An information storage apparatus as claimed in claim 55 comprising a refresh sub-assembly for ensuring that an optimal signal strength is maintained.
- 71. (New) An information storage apparatus as claimed in claim 70 wherein the refresh sub-assembly comprises a signal strength monitor for monitoring a signal strength available from the storage medium, said refresh sub-assembly means being arranged to rewrite the received signal if the signal strength available falls below a predetermined threshold.
- (New) An information storage apparatus as claimed in claim 55 wherein the head assembly and information storage medium are resiliently biased towards one another.
- 73. (New) An information storage apparatus as claimed in claim 55 wherein each bit of storage on said storage medium is associated with just one head.
- (New) An information storage apparatus as claimed in claim 55 comprising an information transfer sub-assembly to transfer information to or from the read/write heads.

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75. (New) An information storage apparatus as claimed in claim 55 comprising a

tracking sub-assembly to adjust the positioning of the read/write heads of the drive so that each

head is correctly aligned with its particular track on the storage medium.

76. (New) An information storage apparatus as claimed in claim 75 wherein said

tracking sub-assembly comprises one or more piezoelectric elements.

77. (New) An information storage apparatus as claimed in claim 76 wherein said one

or more piezoelectric elements is/are arranged to adjust the position of all of said heads together.

78. (New) An information storage apparatus as claimed in claim 76 wherein said one

or more piezoelectric elements is/are arranged to act on the structure or element on which the

read/write heads are mounted to cause a degree of deformation of the supporting structure or

element such that the heads mounted thereon undergo movement and can be adjusted in position.

79. (New) An information storage apparatus as claimed in claim 55 comprising an

oscillation drive mechanism for oscillating the information storage medium with respect to the

head assembly.

80. (New) An apparatus as claimed in claim 79 comprising a piezo-electric actuator

for driving said oscillation.

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81. (New) An apparatus as claimed in claim 79 comprising two oscillating

information storage media or head arrays arranged to oscillate in anti-phase.

82. (New) An apparatus as claimed in claim 79 wherein the information storage

medium and array of heads are arranged to oscillate linearly relative to one another.

83. (New) An apparatus as claimed in claim 79 wherein said array of heads and said

information storage medium are rectangular.

84. (New) An information storage apparatus as claimed in claim 55 wherein a central

portion of said information storage medium forms part of an induction motor.